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OIP MAY 11 2004 JCS	U	Young, S.P., et al. Clinical Science 101, 697-705 (2001) Effects of phytanic acid on the vitamin E status, lipid composition, and physical properties of retinal cell membranes: implications for adult Refsum disease	✓
		Zomer, A.W.M., et al., J. Lipid Res. 41, 1801-7 (2000) Pristanic acid and phytanic acid: naturally occurring ligands for the nuclear receptor peroxisome proliferator-activated receptor α	✓
		Kase, B.F., et al. Anal. Biochem. 196, 95-8 (1991) Separation of phytanic and pristanic acid by high-pressure liquid chromatography: application of the method	✓
	X	Schluter, A., et al., Internat. J. Obesity 26, 1277-1280 (2002) The chlorophyll-derived metabolite phytanic acid induces white adipocyte differentiation	✓
	Y	Gibbons, G.F. Prog. Lipid Res. 42, 479-497 (2003) Regulation of fatty acid and cholesterol synthesis: co-operation or competition?	✓
	Z	Rontani, J.-F., et al. Appl. Environ. Microb. 65, 5484-5492 (1999) Biodegradation of free phytol by bacterial communities isolated from marine sediments under aerobic and denitrifying conditions	✓
	AA	Paton, B.C., et al. J. Clin. Invest. 97, 681-688 (1996) Oxidation of pristanic acid in fibroblasts and its application to the diagnosis of peroxisomal β -oxidation effects	✓
	BB	Jin, S.-J., et al. J. Biol. Chem 267, 119-125 (1992) Incomplete fatty acid oxidation, the production and epimerization of 3-hydroxy fatty acids	✓
	CC	Liebich, H.M., et al. J. Chromatog. 199, 181-189 (1980) Gas chromatography-mass spectrometry of saturated and unsaturated dicarboxylic acids in urine	✓
	DD	Vreken, P., et al. J. Chromatog. B 713, 281-7 (1998) Rapid stable isotope dilution analysis of very-long-chain fatty acids, pristanic acid and phytanic acid using gas chromatography-electron impact mass spectrometry	✓
	EE	Croes, K., et al. J. Lipid Res. 40, 601-6 (1999) Stereochemistry of the α -oxidation of 3-methyl-branched fatty acid in rat liver	✓
	FF	Croes, K., et al Eur. J. Biochem. 240, 674-683 (1996) α -oxidation of 3-methyl-substituted fatty acid in rat liver, production of formic acid instead of CO_2 , cofactor requirements subcellular localization and formation of a 2-hydroxy-3-methylacyl-CoA intermediate	✓
	GG	Vanhove, G., et al. J. Biol. Chem. 266, 24670-5 (1991) Mitochondrial and peroxisomal β oxidation of the branched chain fatty acid 2-methylpalmitate in rat liver	✓
	HH	Foulon, V., et al. Proc. Natl. Acad. Sci. USA 96, 10039-10044 (1999) Purification, molecular cloning and expression of 2-hydroxyphytanoyl-CoA lyase, a peroxisomal thiamine pyrophosphate-dependent enzyme that catalyzes the carbon-carbon bond cleavage during α -oxidation of 3-methyl-branched fatty acids	✓
	II	Amery, L. et al. J. Lipid Res. 41, 1752-59 (2000) Mitochondrial and peroxisomal targeting of 2-methyl-CoA racemase in humans	✓
	JJ	Kotti, T.J., et al. J. Biol. Chem. 275, 20887-95 (2000) In mouse α -methylacyl-CoA racemase, the same gene product is simultaneously located in mitochondria and peroxisomes	✓
	KK	Mukherji, M., et al. Prog. J. Lipid Res. 42, 359-76 (2003) The chemical biology of branched-chain lipid metabolism	✓
	LL	Shieh, W.-R. And Chen C.-S. J. Biol. Chem. 258, 3487-93 (1993) Purification and characterization of novel "2-arylpropionyl-CoA epimerases" from rat liver cytosol and mitochondria	✓
	MM	Reichel, C., et al. J. Pharmac. and Exptl. Therapeutics 51, 576-82 (1997) Molecular cloning and expression of a 2-arylpropionyl-Coenzyme A epimerase: a key enzyme in the inversion metabolism of ibuprofen	✓
	NN	Reichel, C., et al. Biochem. Pharmacol. 50, 1803-6 (1995) 2-arylpropionyl-CoA epimerases: partial peptide sequence and tissue localization	✓
	OO	Ferdinandusse, S., et al. J. Lipid Res. 41, 1890-96 (2000) Subcellular localization and physiological role of α -methylacyl-CoA racemase	✓
	PP	Steinberg, D., et al. Biochem. Biophys. Res. Comm. 19, 783-789 (1965) Conversion of U- C^{14} -Phytol to phytanic acid and its oxidation in Heredopathia atactica polyneuritisformis	✓
	QQ	Hansen, R.P., et al. Biochim. Biophys Acta 116, 178-80 (1966) The fate of phytanic acid when administered to rats	✓
	RR	Avigan, J. Biochim. Biophys Acta 116, 391-4 (1966) The presence of phytanic acid in normal human and animal plasma	✓
	SS	Mize, C.E., et al. J. Lipid Res. 7, 692-697 (1966) Metabolism of phytol U- C^{14} and phytanic acid-U- C^{14} in the rat	✓
	TT	Avigan, J., et al. Biochim. Biophys Res. Comm. 24, 838-844 (1966) Alpha -decarboxylation, an important pathway for degradation of phytanic acid in animals	✓
	UU	Avigan, J. Biochim. Biophys Acta 125, 607-10 (1966) Pristanic acid (2,6,10,14-tetramethylpentadecanoic acid) and phytanic acid (3,7,11,15-tetramethylhexadecanoic acid) content of human and animal tissues	✓
	VV	Mize, C.E., et al. Biochem. Biophys. Res. Comm. 25, 359-365 (1966) A pathway for oxidative degradation of phytanic acid in mammals	✓
	WW	Baxter, J.H. and Steinberg, D. J. Lipid Res. 8, 615-20 (1967) Absorption of phytol from dietary chlorophyll in the rat	✓
	XX	Baxter, J.H. and Steinberg, D. J. Lipid Res. 9, 636-41 (1968) Absorption of chlorophyll phytol in normal man and in patients with Refsum's disease	✓

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YY	Baxter, J.H. and Milne, G.W.A. Biochim. Biophys. Acta. 176, 265-77 (1969) Phytanic acid: identification of five isomers in chemical and biological products of phytol
ZZ	Jansen, G.A. et al. Biochem. Biophys. Res. Comm. 283, 674-9 (2001) Identification of pristanal dehydrogenase activity in peroxisomes: conclusive evidence that the complete phytanic acid α -oxidation pathway is localized in peroxisomes
AAA	Ferdinandusse, Ss., et al. 2-methyl branched-chain fatty acid β -oxidation in peroxisomes and mitochondria and the role of 2-methylacyl-CoA racemase therein. In New Avenues of Research in Fatty Acid Oxidation and Ketone Body Metabolism, Eaton and Quant Ed FAOKX Press, London 2001
BBB	Vanhooren, J.C.T., et al. Int. J. Biochem. 26, 1095-1101 (1994) Activation of 3-methyl-branched fatty acids in rat liver
CCC	Van Veldhoven, P.P. et al. FEBS Lett. 388, 80-84 (1996) Peroxisomal β -oxidation of 2-methyl-branched acyl-CoA esters: stereospecific recognition of the 2S-methyl compounds by trihydroxycoprostanoyl-CoA oxidase and pristanoyl-CoA oxidase
DDD	Dieuadié-Noubhani, M., et al. Biochem. J. 325, 367-73 (1997) Evidence that multifunctional protein 2, and not multifunctional protein 1, is involved in the peroxisomal β -oxidation of pristanic acid
EEE	Ackman, R.G., et al. Lipids 2, 357-362 (1967) The occurrence of diastereomers of phytanic and pristanic acids and their determination by gas-liquid chromatography
FFF	Dhopeswarkar, G.A. Prog. Lipid Res. 19, 107-118 (1981) Naturally occurring food toxicants: toxic lipids
GGG	Stokke O., et al. Scand. J. Clin. Lab. Invest. 46, 3-10 (1986) Disorders related to the metabolism of phytanic acid
HHH	van den Branden, C., et al. Pediat. Res. 20, 411-15 (1986) Phytol and peroxisome proliferation
III	Vallance, H. and Applegarth, D. Clin. Biochem. 27, 183-6 (1994) An improved method for quantification of very long chain fatty acids in plasma
JJJ	Schmitz, W., et al. Eur. J. Biochem. 222, 313-323 (1994) Purification and properties of an α -methylacyl-CoA racemase from rat liver
KKK	Pahan, K. and Singh, I. J. Lipid Res. 36, 986-997 (1995) Phytanic acid oxidation: topographical localization of phytanoyl-CoA ligase and transport of phytanic acid in human peroxisomes
LLL	Mihalik, S.J., et al. Eur. J. Biochem. 232, 545-551 (1995) Phytanic acid α -oxidation in rat liver peroxisomes
MMM	Watkins, P.A., et al. J. Lipid Res. 37, 2288-2295 (1996) Phytanic acid activation in rat liver peroxisomes is catalyzed by long-chain acyl-CoA synthetase
NNN	Schmitz, W. and Conzelmann, E. Eur. J. Biochem. 244, 434-440 (1997) Stereochemistry of peroxisomal and mitochondrial β -oxidation of α -methylacyl-CoAs
OOO	Clayton, P.T. Biochem. Soc. Trans. 29, 298-305 (2001) Clinical consequences of defects in peroxisomal β -oxidation
PPP	Little, J.M. et al. Drug Metab. Dispos. 30, 551-553 (2002) Glucuronidation of the dietary fatty acids, phytanic acid and docosahexaenoic acid, by human UDP-glucuronosyltransferases
QQQ	Heim, M. et al. FASEB J. 16, 718-720 (2002) Phytanic acid, a natural peroxisome proliferator-activated receptor (PPAR) agonist, regulates glucose metabolism in rat primary hepatocytes
RRR	Browne, G.S., et al. Biochem. Pharmacol. 57, 837-44 (1999) Stereoselective and substrate-dependent inhibition of hepatic mitochondrial β -oxidation and oxidative phosphorylation by the non-steroidal inflammatory drugs ibuprofen, flurbiprofen and ketorolac
SSS	Dacremont, G., et al. J. Inher. Metab. Dis. 18, 76-83 (1995) Measurement of very long-chain fatty acids, phytanic and pristanic acid in plasma and cultured fibroblasts by gas chromatography
TTT	Rezanka, T. and Votruba, J. Anal. Chim. Acta 465, 273-297 (2002) Chromatography of very long-chain fatty acids from animal and plant kingdoms
UUU	EGGE, H., et al. FEBS Lett. 2, 255-8 (1969) Minor constituents of human milk (I) identification of cyclohexanundecanoic acid and phytanic acid in human milk fat by a combination gas chromatograph-mass spectrometer
VVV	Lough, A.K. Lipids 12, 115-9 (1976) The phytanic acid content of the lipids of bovine tissues and milk
WWW	Verhoeven, N.M., et al. Biochem. Biophys. Res. Comm. 237, 33-36 (1997) Resolution of the phytanic acid α -oxidation pathway: identification of pristanal as the product of the decarboxylation of 2-hydroxyphytanoyl-CoA
XXX	Brown, W.G. Org. React. 6, 469-509 (1951) Reductions by lithium aluminum hydride

EXAMINER

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